

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

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United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year)
25 November 1998 (25.11.98)

International application No.
PCT/CZ98/00019

International filing date (day/month/year)
27 April 1998 (27.04.98)

Applicant

KASAFÍREK, Evzen et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	23 October 1998 (23.10.98)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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PATENT COOPERATION TREAT

REC'D 11 FEB 1999
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's o	r agent	's file reference	FOR FURTHER ACTION	Se	e Notification of Transmittal of International eliminary Examination Report (PCT/IPEA/416)
PV/232/P0	CT			FIR	similary Examination Report (1 0 1711 2 0 0 17)
International	applica	tion No.	International filing date (day/month/)	ear)	Priority date (day/month/year)
PCT/CZ98	3/0001	19	27/04/1998		30/04/1997
International	Patent	Classification (IPC) or na	tional classification and IPC		
C07K14/8	1				
				- 1	
Applicant					
VUFB, a.s	. et al	•			
	-				
1. This in	ternati	onal preliminary exam	ination report has been prepared	by this I	nternational Preliminary Examining Authority
and is	transn	nitted to the applicant	according to Article 36.		·
				L 4	•
2. This R	EPOR	T consists of a total of	5 sheets, including this cover s	neet.	. `
	his ren	ort is also accompani	ed by ANNEXES, i.e., sheets of t	ne descri	ption, claims and/or drawings
l 14/	bich b	ava haan amended ar	d are the basis for this report an	/or shee	its containing rectifications made
D.	etore t	his Authority (see Hule	70.16 and Section 607 of the Ad	mmoua	tive instructions under the FOTA.
Those	annev	es consist of a total of	sheets		•
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3. This re	port c	ontains indications rela	ating to the following items:		
ı	×	Basis of the report		٠	
11		Priority			
111		Non-establishment	f opinion with regard to novelty, i	nventive	step and industrial applicability
IV		Lack of unity of inve	ntion		
V	⊠	Reasoned statemen citations and explan	t under Article 35(2) with regard tations supporting such statemen	o novelty	, inventive step or industrial applicability;
VI		Certain documents	eited		
VII	×	Certain defects in th	e international application		
VIII		Certain observations	on the international application		
Date of sub	missio	n of the demand	Date of	completic	on of this report
23/10/19	98				
Name and	mailing	address of the IPEA/	Author	zed office	SPEIND
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<i>()</i>		80298 Munich . (+49-89) 2399-0, Tx: 52	Moon 3656 epmu d	о п, Г	
		c: (+49-89) 2399-4465	Teleph	one No. (4	49-89) 2399-8538

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/CZ98/00019

١.	Basis	of the	report
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	Bas	is of the report				
1.	resp	report has been do conse to an invitation report since they do	on under Article	9 14 are i	stitute sheets which have been furnished to the ferred to in this report as "originally filed" and ar 's.):	receiving Office in e not annexed to
	Des	cription, pages:				
	1-12	2	as originally fi	iled		
	Clai	ims, No.:				
	1-4		as originally f	iled		
2.	The	amendments have	e resulted in th	e cancell	ion of:	
		the description,	pages:			-
		the claims,	Nos.:			
		the drawings,	sheets:			•
3.		This report has be considered to go l	en established beyond the dis	d as if (so closure a	ne of) the amendments had not been made, singlied (Rule 70.2(c)):	ce they have been
4.	Add	ditional observation	s, if necessary	r:		
V.	Rea	asoned statement plicability; citation	under Article s and explan	e 35(2) w ations si	n regard to novelty, inventive step or industr oporting such statement	ial
1.	Sta	tement				
	No	velty (N)	Yes: No:	Claims Claims	1-4	
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-4	

Industrial applicability (IA)

Yes:

No:

Claims 1-4

Claims

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Reference is made to the following documents:

D1: WO 90 04409 D2: US-A-4528133

D3: Biol Chem Hoppe Seyler 366 (1985) 333-343

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- On the basis of the available documents D1-D3 it is concluded that the present i. application satisfies the criterion set forth in Article 33(2) PCT because the subject-matter of said claims is new in respect of prior art as defined in the regulations (Rule 64(1)(3) PCT).
- In addition, the present application satisfies the criterion set forth in Article 33(3) ii. PCT because the subject-matter of said claims involves an inventive step (Rule 65(1)(2) PCT).

The closest state of the art document is considered to be D1: it refers to a synthetic peptide inhibitors of elastase with a sequence Lys-Ala-Pro but with additional other groups attached. D2 or D3 in combination with D3 would suggest the presently claimed inhibitors of claim 1 characterized by the sequence Lys-Ala-Ala-Pro with the additional groups at the N-terminus and the isobutyl at the Cterminus., and the demonstrated high inhibitory activity (see Table VII of the application).

The method claims 2-4 only refer to the synthesis of the inhibitors of claim 1 with the general structure I and are therefore also considered to be inventive.

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D3 are not mentioned in the description, nor are

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CZ98/00019

these documents identified therein.

Form PCT/Separate Sheet/409 (Sheet 2) (EPO-April 1997)

A. CLASSIF	CO7K14/81 CO7K5/10		
	International Patent Classification (IPC) or to both national classification	on and IPC	
	SEARCHED cumentation searched (classification system followed by classification	symbols)	
IPC 6	C07K		
Documentati	ion searched other than minimumdocumentation to the extent that suc	h documents are included in the fields search	ched
			·
Electronic da	ata base consulted during the international search (name of data base	and, where practical, search terms used)	
			-
C. DOCUME	NTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.
х	US 4 528 133 A (KASAFIREK EVZEN I	ET AL) 9	2-4
	July 1985 see page 4		
	see table I	·	
	see example 8		
,	KASAFIREK ET AL.: "Anionic inhib	iton of	
Α	pancreatic and leukocyte elastase		
	BIOL. CHEM. HOPPE-SEYLER,		
	vol. 366, 1985, pages 333-343, XP	002074780	
	see the whole document		
Α	WO 90 04409 A (UNIV KENTUCKY RES	FOUND) 3	
^	May 1990		
	see claims		
Furti	ner documents are listed in the continuation of box C.	X Patent family members are listed in	annex.
° Special ca	tegories of cited documents :	T" later document published after the intern	
	ent defining the general state of the art which is not	or priority date and not in conflict with t cited to understand the principle or the	
"E" earlier o	lered to be of particular relevance document but published on or after the international	invention "X" document of particular relevance; the cla	aimed invention
filing d	iate ent which may throw doubts on priority claim(s) or	cannot be considered novel or cannot li involve an inventive step when the doc	
	is cited to establish the publicationdate of another n or other special reason (as specified)	"Y" document of particular relevance; the cla cannot be considered to involve an inv	aimed invention entive step when the
	ent referring to an oral disclosure, use, exhibition or means	document is combined with one or more ments, such combination being obviou	re other such docu-
"P" docume	ent published prior to the international filing date but	in the art. "&" document member of the same patent f.	
	actual completion of theInternational search	Date of mailing of the international sear	
	8 August 1998	01/09/1998	•
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Cam, -2 2 C	
1	Fax: (+31-70) 340-3016	Cervigni, S	

Information on patent family members

ntional Application No PCT/CZ 98/00019

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4528133 A		09-07-1985	CS 231228 B AT 387781 B BE 897844 A CA 1243306 A CH 658251 A DE 3335865 A FR 2533920 A GB 2127830 A,B JP 1696171 C JP 3059919 B JP 59078150 A SE 457087 B SE 8305123 A	15-10-1984 10-03-1989 16-01-1984 18-10-1988 31-10-1986 05-04-1984 06-04-1984 18-04-1984 28-09-1992 12-09-1991 04-05-1984 28-11-1988 02-04-1984
WO 9004409	A	03-05-1990	US 5008245 A AU 629259 B AU 4511089 A CA 2001629 A EP 0367514 A EP 0396709 A JP 3503055 T	16-04-1991 01-10-1992 14-05-1990 27-04-1990 09-05-1990 14-11-1990 11-07-1991